

WPCR-501

Wireless-N Notebook Adapter



Up to 300Mbps data rate, 6x better performance

SparkLAN WPCR-501 Notebook Adapter is IEEE 802.11n draft 2.0 compliant. It can deliver 6x better performance than normal 802.11g while fully backward compatible with conventional 802.11g gears. The Notebook Adapter integrated MIMO technology, which can enhance coverage range and throughput and save the cost to purchase additional devices to deploy household WLAN environment. The Wireless-N Notebook Adapter can achieve incredible transmission rate of up to 300Mbps, which allow you to stream bandwidth-sensitive applications, such as high-definition video, VoIP phone calls, movies, music, pictures, and online games.

Ensure your security and privacy

As the reach of your wireless network extends further, network security is a key factor. SparkLAN Cardbus combines 64/128 bit WEP Encryption, WPA, WPA2, and QoS for your laptop from hacker and intruders.

Product Highlights

- IEEE802.11n draft 2.0 compliant
- Delivers up to 300 Mbps data rate
- 6x better performance
- Ideal for bandwidth-sensitive application
- Designed to stream movies, music, photos, HD video, VoIP phone calls, and large file

Features

- MIMO technology
- Backward compliant with 802.11b/g
- Easy-to-install
- Support Window 2000/XP
- Advanced security: 64/128bit WEP, WPA, WPA2
- RF Chain: 2T3R for HT20, HT40, 1T3R for 802.11b/g mode

Specifications

Hardware	
Chipset	Ralink RT2860 (MAC/BBP) and RT2820(RF)
Interface	32-bit Cardbus
LED Indicators	Power, Activity
Antenna	2 dbit internal antenna
Radio Characteristics	
Standard	IEEE draft 802.11n, 802.11b/g
Frequency Band	802.11b ISM band 2.400 ~ 2.484GHz (subject to local regulations) 802.11g ISM band 2.400 ~ 2.484GHz (subject to local regulations) 802.11n draft ISM band 2422 – 2452MHz (channel BW=40MHz) 2400 – 2483.5MHz (channel BW=20MHz)
RF chain	2T3R for HT20,HT40, 1T3R for 802.11b/g mode
Spreading	802.11b : Direct Sequence Spread Spectrum (DSSS) 802.11g : Orthogonal Frequency Division Multiplexing (OFDM) HT20 : Orthogonal Frequency Division Multiplexing (OFDM) multiple-input/multiple-output (MIMO) HT40 : Orthogonal Frequency Division Multiplexing (OFDM) multiple-input/multiple-output (MIMO)
Modulation	802.11g G64 QAM, 16 QAM,QPSK, BPSK 802.11b GCKK,DQPSK,DBPSK HT20,HT40 64 QAM, 16 QAM,QPSK, BPSK Data
Data Rate	802.11b 11,5.5, 2, 1 Mbps per channel 802.11g 54, 48, 36,24,18,12, 9, 6 Mbps per channel HT20 144, 130, 115, 86, 57, 43, 28, 14 Mbps HT40 270, 240, 180, 120, 90, 60, 30Mbps
Receive sensitivity	802.11g (3RX) Nominal Temp Range: - 6Mbps @ -91dBm, typical, +/-2dBm - 54Mbps @ -72dBm, typical, +/-2dBm 802.11b Typ. -85dBm@11Mbps, +/-2dBm Typ. -92dBm@1Mbps, +/-2dBm HT20(3RX) MCS=0 -87dBm, +/-2dBm MCS=15 -67dBm, +/-2dBm HT40(3RX) MCS=0 -85dbm, +/-2dBm MCS=15 -64dBm, +/-2dBm

Power Consumption	802.11b Continue TX: 610@3.3V Continue RX: 340@3.3V
	802.11g Continue TX: 610@3.3V Continue RX: 340@3.3V
	HT20 Continue TX: 700@3.3V Continue RX: 340@3.3V
	HT40 Continue TX: 720@3.3V Continue RX: 340@3.3V
Transmit Power	802.11g 15dBm @ 54Mbps 802.11b 17dBm@11Mbps HT20 13dBm@144Mbps HT40 11dBm@270Mbps

Software Features

Security	<ul style="list-style-type: none"> 64/128 WEP WPA, WPA2
Software Support	Windows 2000/XP

Environmental Specifications

Dimensions	120*49*8mm
Weight	42g
Temperature	Operating: 0°C to 70°C Storage: -20°C to 80°C
Humidity	90%,(non-condensing)

Power Supply

Output	DC 3.3V
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Certification

FCC, CE

Package Contents

Wireless-N Notebook Adapter	
CD-ROM (User Guide, Utility, QIG, User Manual)	Multi-Language Quick Installation Guide

Specifications are preliminary and subject to change without notice